

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. - 3. (cancelled)
4. (currently amended) An active noise reduction (ANR) headset system comprising:

a headset circuitry receiving an input voltage; and

a power supply providing the input voltage to the headset circuitry, the power supply comprising:

a direct current (DC) voltage source supplying power; and

a voltage converter circuit converting the power to the input voltage supplied to the headset circuitry, the voltage converter circuit varying the input voltage in response to changes to a headset load current drawn by the headset circuitry from the power supply,

a shutoff circuit placing the headset circuitry in a lower power consumption state when the headset load current falls below a threshold value for a predetermined amount of time.

~~The system of claim 2,~~ wherein the shutoff circuit further comprises:

a band pass filter having an input signal based on a measured headset load current and an output signal that is compared to the threshold value.

5. (original) The system of claim 4, wherein the shutoff circuit comprises:

a comparator comparing the threshold value to a filter output based on the measured headset load current; and

a timer reset circuitry sending a signal to place the headset circuitry in a lower power consumption state.

6. - 9. (cancelled)

10. (currently amended) An active noise reduction (ANR) headset system comprising:

a headset circuitry receiving an input voltage; and

a power supply providing the input voltage to the headset circuitry, the power supply comprising:

a direct current (DC) voltage source supplying power; and

a voltage converter circuit converting the power to the input voltage supplied to the headset circuitry, the voltage converter circuit varying the input voltage in response to changes to a headset load current drawn by the headset circuitry from the power supply,

a shutoff circuit placing the headset circuitry in a lower power consumption state when the headset load current falls below a threshold value for a predetermined amount of time,

~~The system of claim 1~~ wherein the headset circuitry comprises:

an ANR circuit receiving a signal from a microphone positioned in an earcup and including a feedback loop to actively reduce the signal;

a first voltage regulator limiting a voltage supplied to the ANR circuit and to an amplifier to a first predetermined voltage; and

a second voltage regulator limiting the input voltage of the headset circuitry to a second predetermined voltage.

11. - 15. (cancelled)

16. (currently amended) An active noise reduction (ANR) headset system comprising:

a headset circuitry receiving an input voltage; and

a power supply providing the input voltage to the headset circuitry, the power supply comprising:

a direct current (DC) voltage source supplying power; and

a voltage converter circuit converting the power to the input voltage supplied to the headset circuitry, the voltage converter circuit varying the input voltage in response to changes to a headset load current drawn by the headset circuitry from the power supply; and

a shutoff circuit placing the headset circuitry in a lower power consumption state when the headset load current falls below a threshold value for a predetermined amount of time.

~~The system of claim 13,~~ wherein the shutoff circuit further comprises:

a band pass filter having an input signal based on a measured headset load current and an output signal that is compared to the threshold value.

17. (original) The system of claim 16, wherein the shutoff circuit comprises:

a comparator comparing the threshold value to a filter output based on the measured headset load current; and

a timer reset circuitry sending a signal to place the headset circuitry in a lower power consumption state.

18. - 20. (cancelled)

21. (currently amended) An active noise reduction (ANR) headset system comprising:

a headset circuitry receiving an input voltage; and

a power supply providing the input voltage to the headset circuitry, the power supply comprising:

a direct current (DC) voltage source supplying power; and

a voltage converter circuit converting the power to the input voltage supplied to the headset circuitry, the voltage converter circuit varying the input voltage in response to changes to a headset load current drawn by the headset circuitry from the power supply; and

a shutoff circuit placing the headset circuitry in a lower power consumption state when the headset load current falls below a threshold value for a predetermined amount of time.

~~The system of claim 13~~ wherein the headset circuitry comprises:

an ANR circuit receiving a signal from a microphone positioned in an earcup and including a feedback loop to actively reduce the signal;

a first voltage regulator limiting a voltage supplied to the ANR circuit and to an amplifier to a first predetermined voltage; and

a second voltage regulator limiting the input voltage of the headset circuitry to a second predetermined voltage.

22. - 26. (cancelled)

27. (currently amended) An active noise reduction (ANR) headset system comprising:

a headset circuitry receiving an input voltage; and

a shutoff circuit placing the headset circuitry in a lower power consumption state when a headset load current falls below a threshold value for a predetermined amount of time,

~~The system of claim 24,~~ wherein the shutoff circuit further comprises:

a band pass filter having an input signal based on a measured headset load current and an output signal that is compared to the threshold value.

28. (original) The system of claim 27, wherein the shutoff circuit comprises:

a comparator comparing the threshold value to a filter output based on the measured headset load current; and

a timer reset circuitry sending a signal to place the headset circuitry in a lower power consumption state.

29. - 32. (cancelled)

33. (currently amended) An active noise reduction (ANR) headset system comprising:

a headset circuitry receiving an input voltage; and

a shutoff circuit placing the headset circuitry in a lower power consumption state when a headset load current falls below a threshold value for a predetermined amount of time,

~~The system of claim 24~~ wherein the headset circuitry comprises:

an ANR circuit receiving a signal from a microphone positioned in an earcup and including a feedback loop to actively reduce the signal;

a first voltage regulator limiting a voltage supplied to the ANR circuit and to an amplifier to a first predetermined voltage; and

a second voltage regulator limiting the input voltage of the headset circuitry to a second predetermined voltage.

34. - 40. (cancelled)

41. (currently amended) A power supply for an active noise reduction headset, comprising:
a direct current (DC) voltage source supplying power; and a voltage converter circuit
converting the power to the input voltage supplied to the headset circuitry, the voltage
converter circuit varying the input voltage in response to changes to a headset load
current drawn by the headset circuitry from the power supply,
a shutoff circuit placing the headset circuitry in a lower power consumption state when
the headset load current falls below a threshold value for a predetermined amount of
time.

~~The power supply of claim 39,~~ wherein the shutoff circuit further comprises:

a band pass filter having an input signal based on a measured headset load current and an output signal that is compared to the threshold value.

42. (currently amended) A power supply for an active noise reduction headset, comprising:

a direct current (DC) voltage source supplying power; and a voltage converter circuit converting the power to the input voltage supplied to the headset circuitry, the voltage converter circuit varying the input voltage in response to changes to a headset load current drawn by the headset circuitry from the power supply,

a shutoff circuit placing the headset circuitry in a lower power consumption state when the headset load current falls below a threshold value for a predetermined amount of time,

~~The power supply of claim 39,~~ wherein the shutoff circuit comprises:

a comparator comparing the threshold to a filter output based on the measured headset load current; and

a timer reset circuitry sending a signal to place the headset circuitry in a lower power consumption state.

43. - 51. (cancelled)

52. (currently amended) A power supply for an active noise reduction headset circuit, comprising:

a shutoff circuit placing the headset circuitry in a lower power consumption state when a headset load current falls below a threshold value for a predetermined amount of time,

~~The power supply of claim 49,~~ wherein the shutoff circuit further comprises:

a band pass filter having an input signal based on a measured headset load current and an output signal that is compared to the threshold value.

53. (original) The power supply of claim 52, wherein the shutoff circuit comprises:

a comparator comparing the threshold to a filter output based on the measured headset load current; and

a timer reset circuitry sending a signal to place the headset circuitry in a lower power consumption state.

54. - 66. (cancelled)